SEM3-WL-2 Smart Power Sensor

# Quick Guide

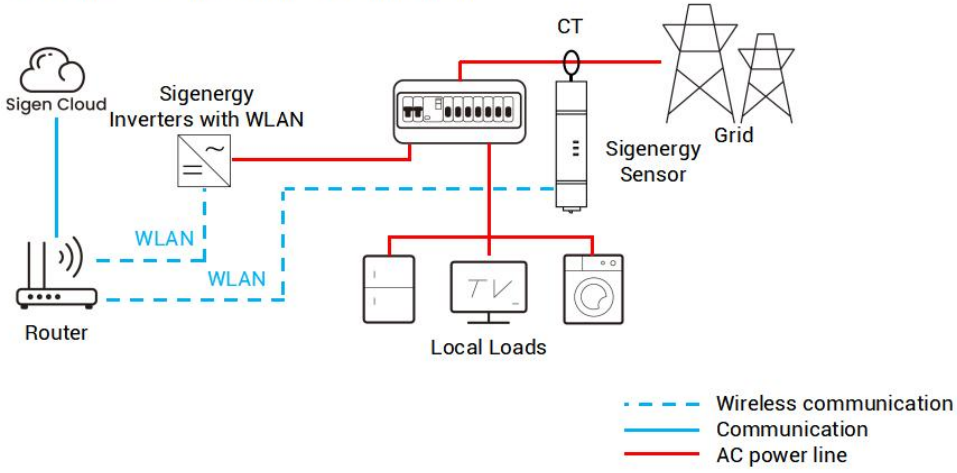

Please scan the QR code to obtain the electronic version of the quick guide and user manual

Add:No.52,DongjinRoad,Nanhu,Jiaxing,Zhejiang,314001,China.
Tel:0086-573-83698881/83698882
Fax:0086-573-83698883
Web:www.eastron.com.cn

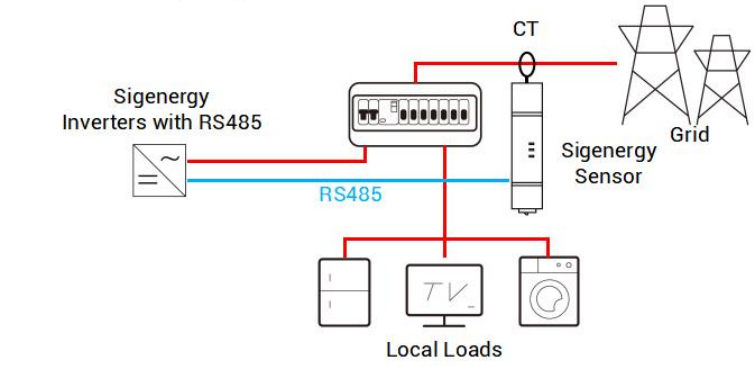
# Requirement for Power Sensor

## System Networking

Scenario 1 - for Sigenergy Inverters with WLAN




Scenario 2 - for Sigenergy Inverters with RS485




**Notes:**

1.For the installation location and wiring of the power sensor, please consult our engineer.

2.For voltage sampling, if the grid voltage is≤277V, you can connect the wires directly;

3. power sensor include CTs, which no separate purchase required. If CTs are purchased separatedly, they must meet the following requirements:

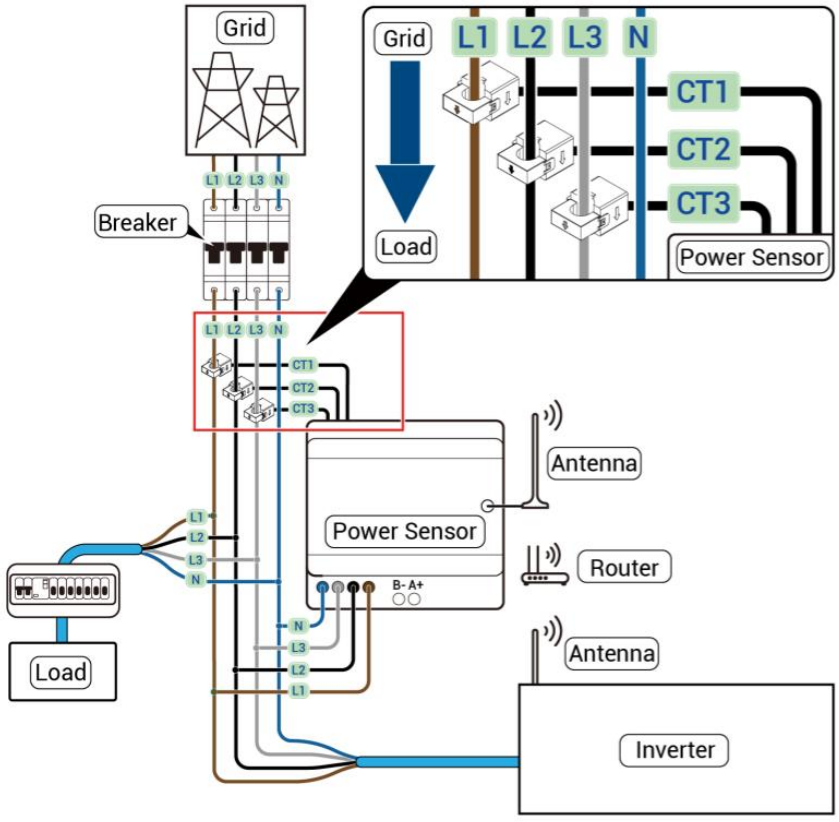
| | | |
|---|---|---|
| CT | Primary rated current $I_n$/A | ≥Measuring current |
| | Secondary rated current $I_o$/mA | 40mA |
| | Accuracy | Class 0.5 |
| | The default CT ratio of the power sensor | 120A/40mA or 300A/40mA |

# SamplingVoltage≤277Vac

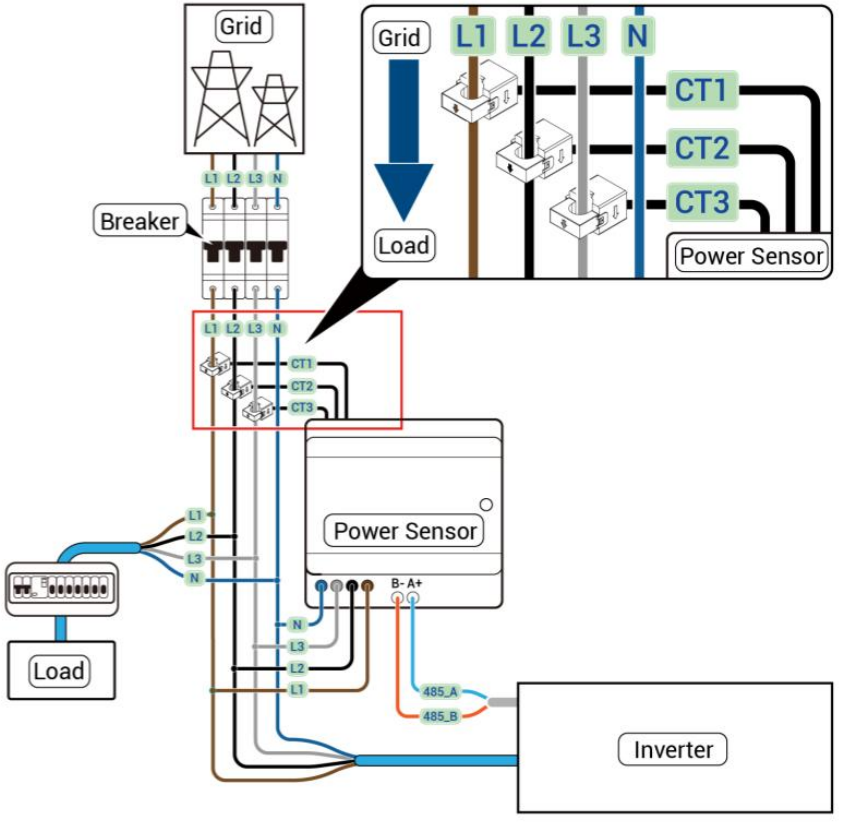
# (3P4W)

## Wiring Guide

Scenario 1 - for Sigenergy Inverters with WLAN




Scenario 2 - for Sigenergy Inverters with RS485




**Notes:**

1.Sampling voltage≤277Vac(3P4W), please refer to the guide to wire and setup CT ratios.

2. During installation, ensure that the L and N wires are correctly connected.

3. Auto-adaptive CT Polarity and Phase Orientation.

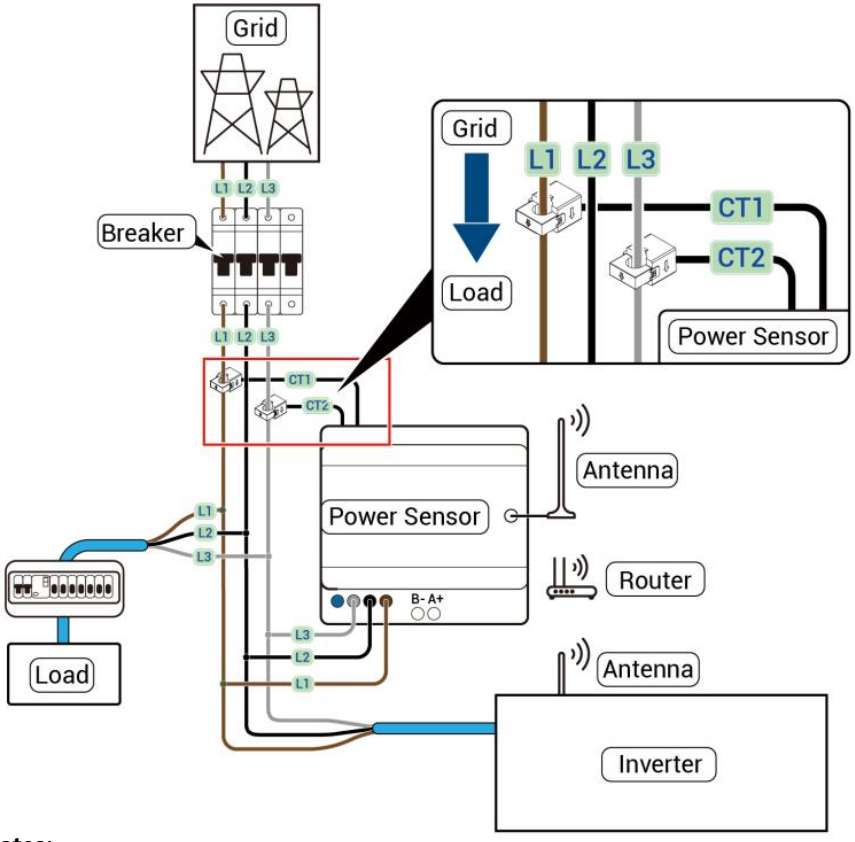
4.Power sensor require scircuit breaker for protection, otherwise the voltage sampling wires need to be connected with a fuse in each phase. Recommended fuse specification: ≥measuring voltage/1A.

# SamplingVoltage≤277Vac

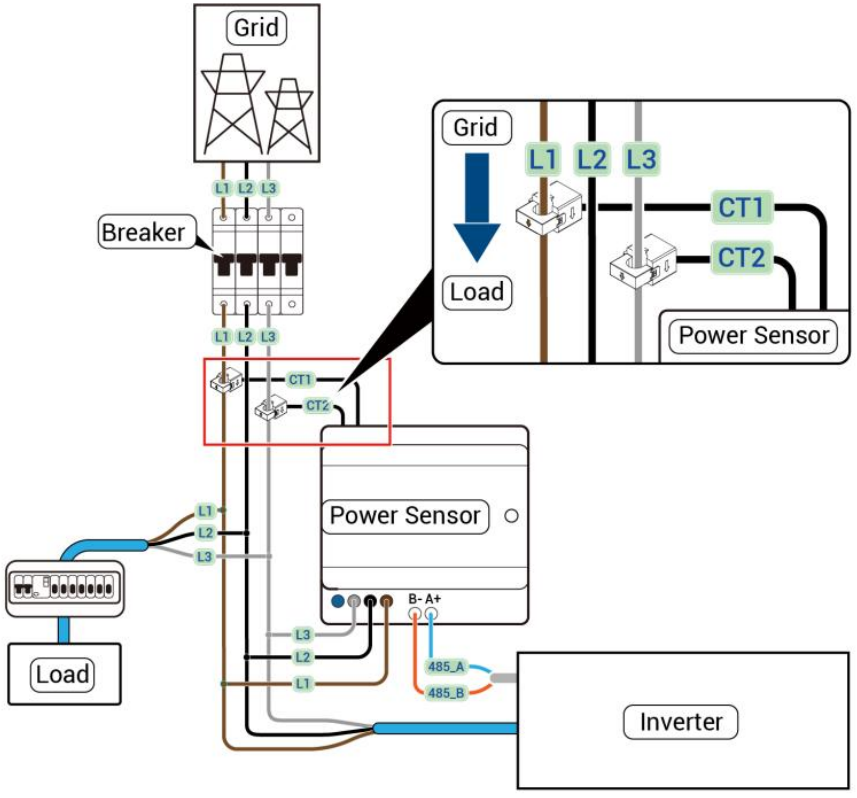
# (3P3W)

## Wiring Guide

Scenario 1 - for Sigenergy Inverters with WLAN




Scenario 2 - for Sigenergy Inverters with RS485




**Notes:**

1.Sampling voltage≤480Vac(3P3W), correct connect the CT.

2. During installation, ensure that the L and N wires are correctly connected.

3. Auto-adaptive CT Polarity and Phase Orientation.

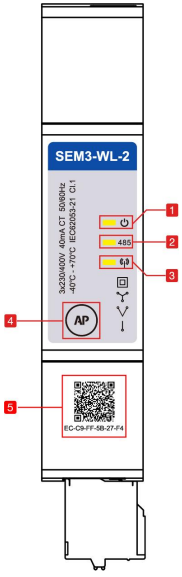
4.Power sensor require scircuit breaker for protection, otherwise the voltage sampling wires need to be connected with a fuse in each phase. Recommended fuse specification: ≥measuring voltage/1A.

5. Please refer to the "Definition of button and LEDs".

6. If the voltage and current wiring is incorrect, all LED lights will remain constantly on, indicating a phase sequence error alarm. The user can resolve this issue by rewiring or using Sigen's upper computer software to make adjustments.

7. The antenna is designed to be plug-and-play for easy installation. Under open-field conditions, the communication distance can reach up to 80 meters.

## Definition of button and LEDs

| Interface | Definition | Introduction |
|---|---|---|
|  | 1.Power LED<br>(Red) | 1.Stay on: Light up when the meter is powered on with no load.<br>2.Flashing: Blinks when a load is connected. |
| | 2.RS485 LED<br>(Green) | 1.Stay on: During the OTA upgrading.<br>2.Flashing: Blinks when the meter is communicating normally. |
| | 3.WLAN LED<br>(Blue) | In the AP mode:<br>1.Stay on: Light up when the meter enter the AP mode.<br>2.Flashing: Blinks when the meter is disconnected to the network.<br>3.Off: Light off after the meter is connected to the network. |
| | | In the station mode:<br>1.Stay on: Light up when the WLAN module malfunctions.<br>2.Flashing: Blinks during the meter wireless communicating. |
| | 4.Key | 1. Press and hold for 3 seconds to enter/exit AP mode;<br>2. Press and hold for 10 seconds to reset communication parameters. |
| | 5.QR code | Used for WLAN network configuration |